

FIG. 1

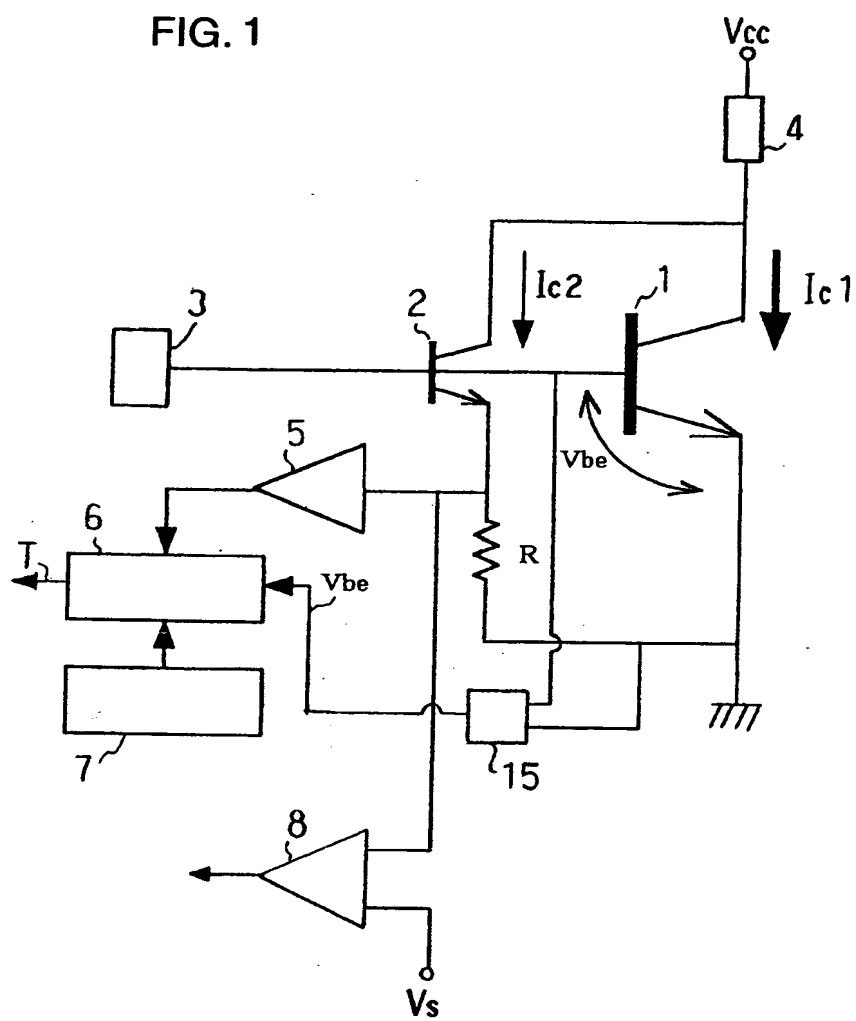


FIG. 2

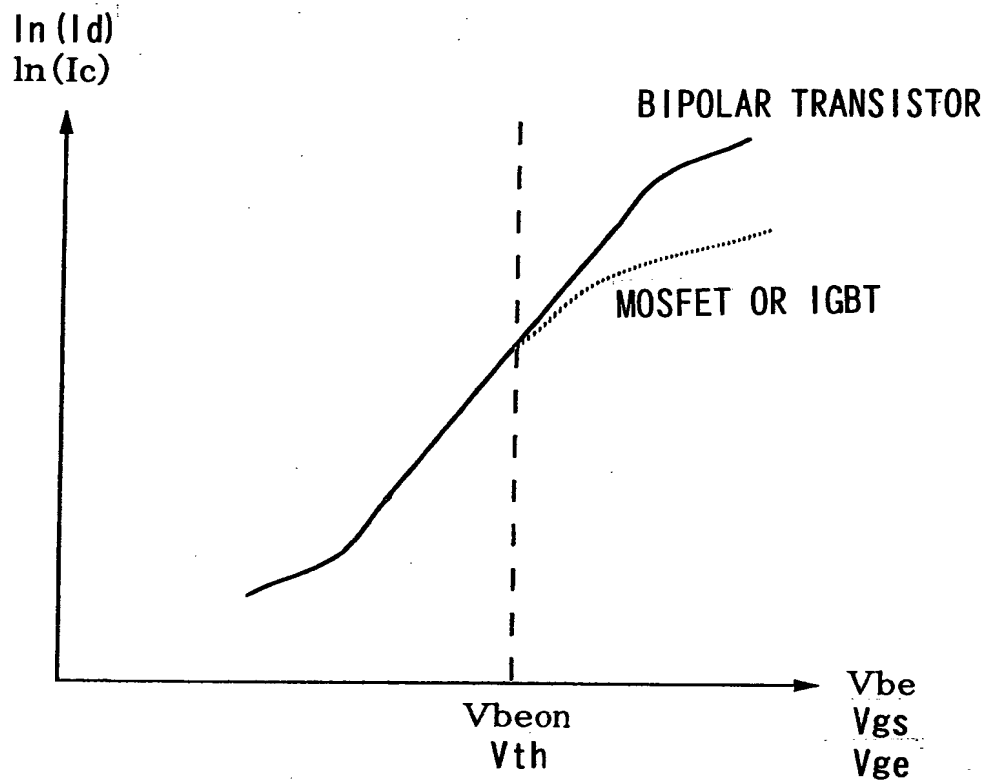


FIG. 3

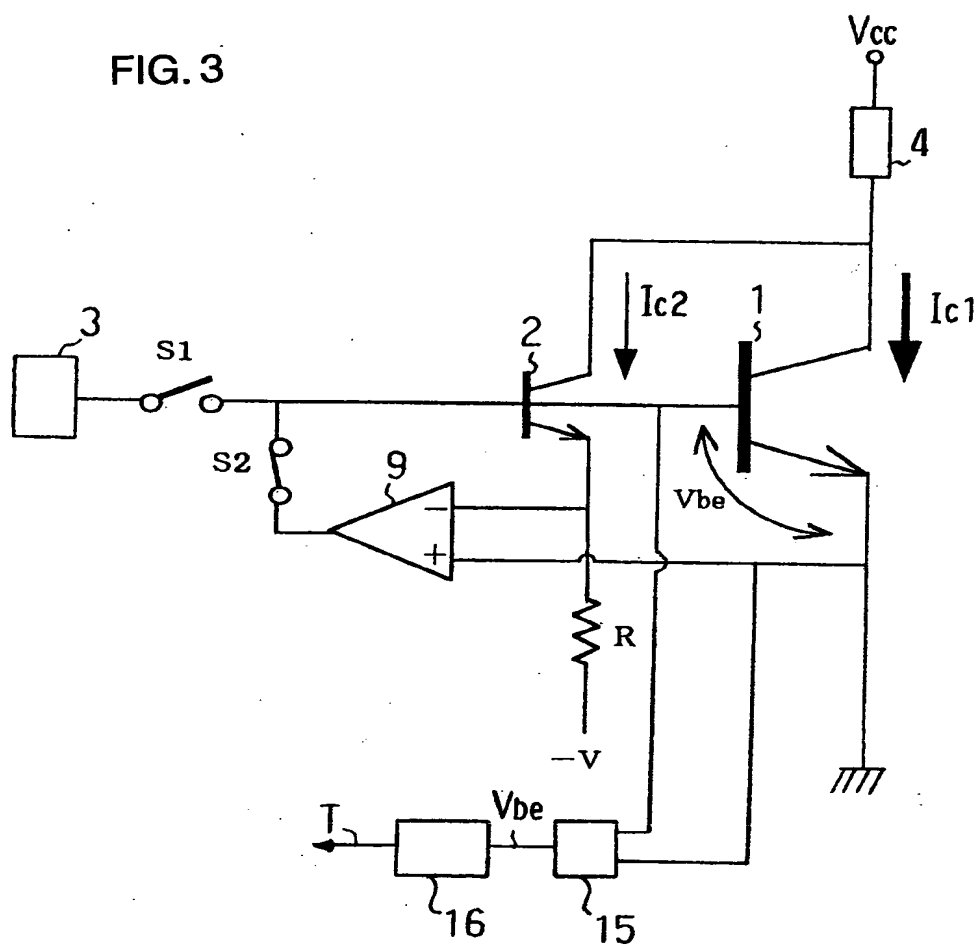


FIG. 4

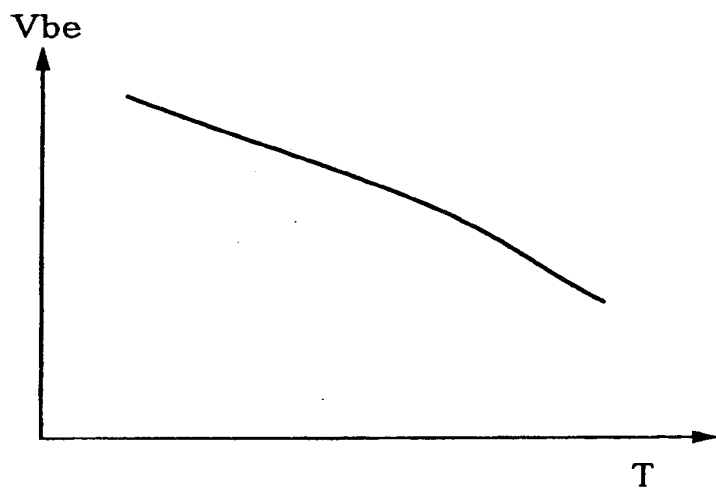


FIG. 5

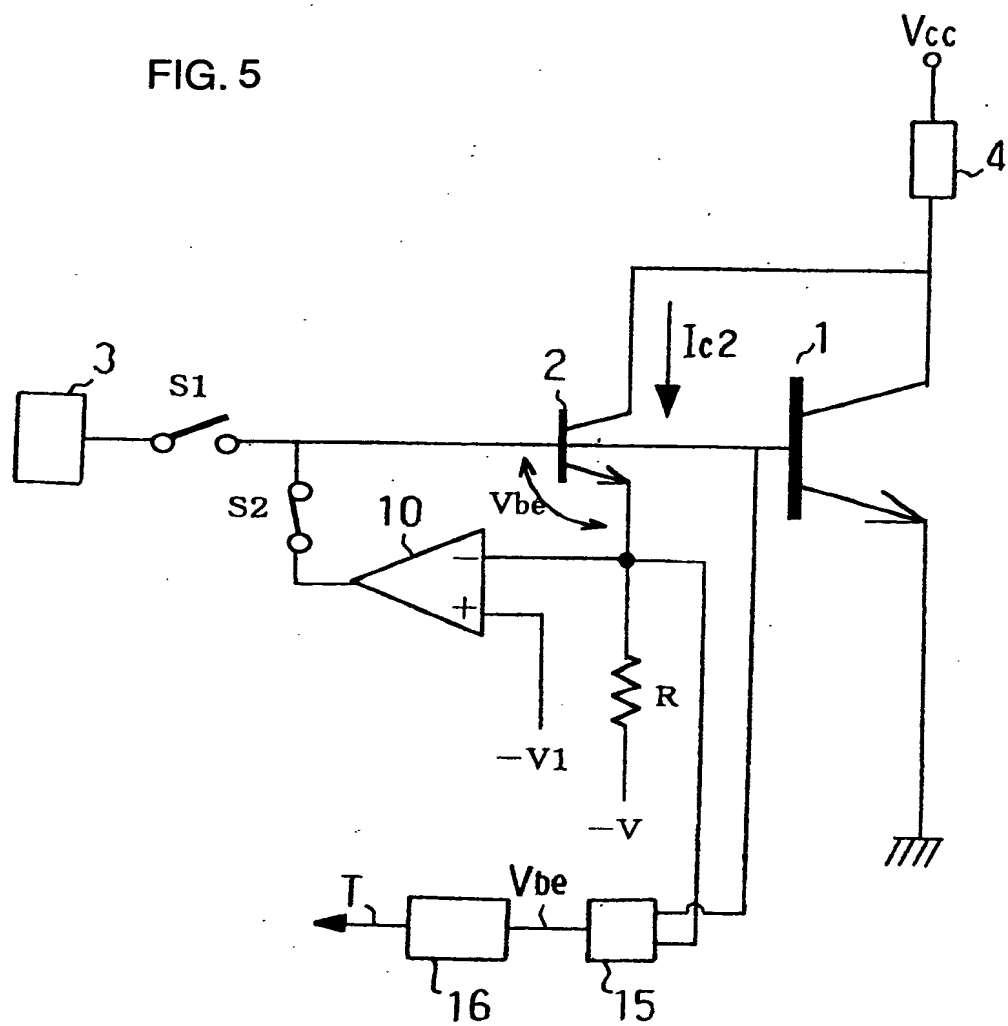


FIG. 6

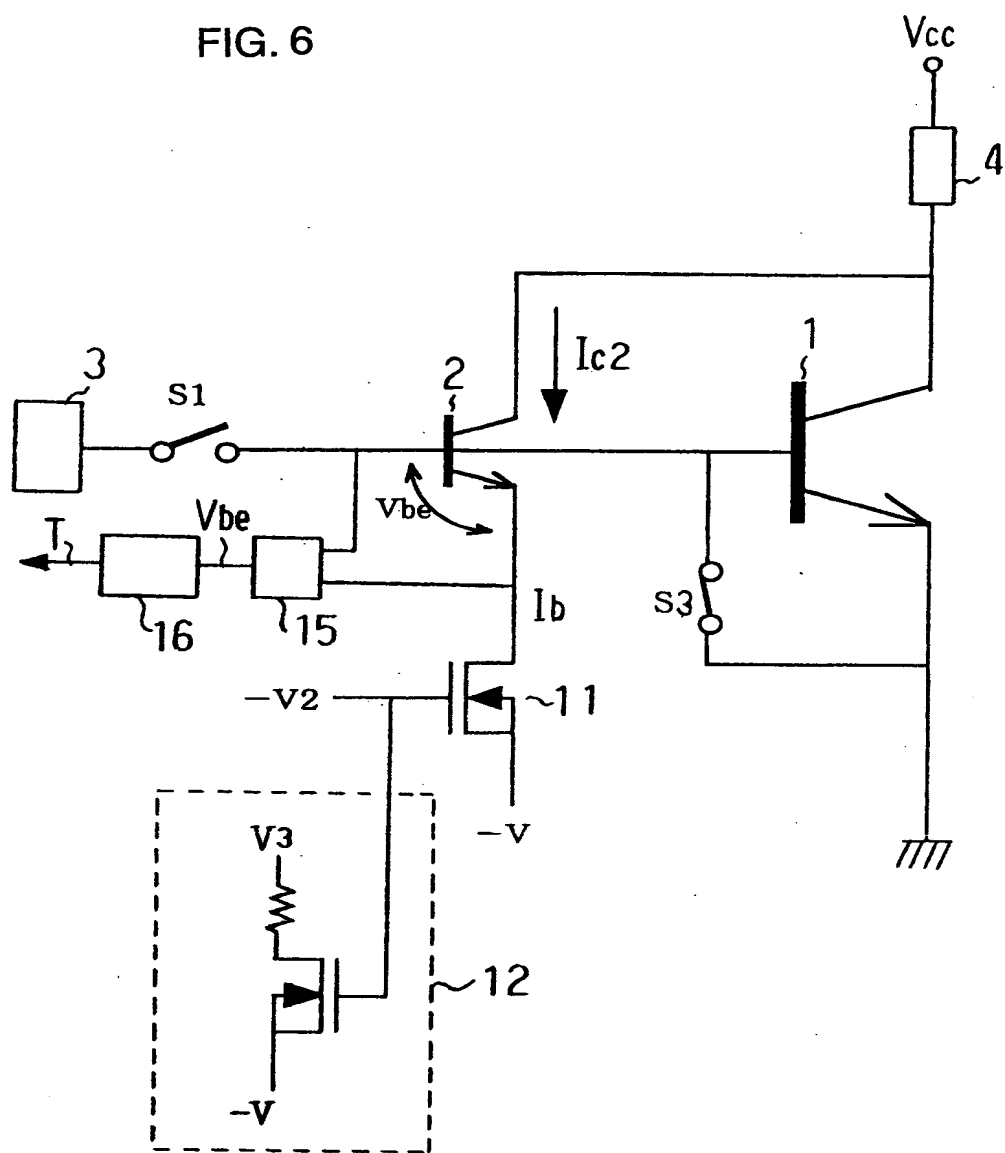
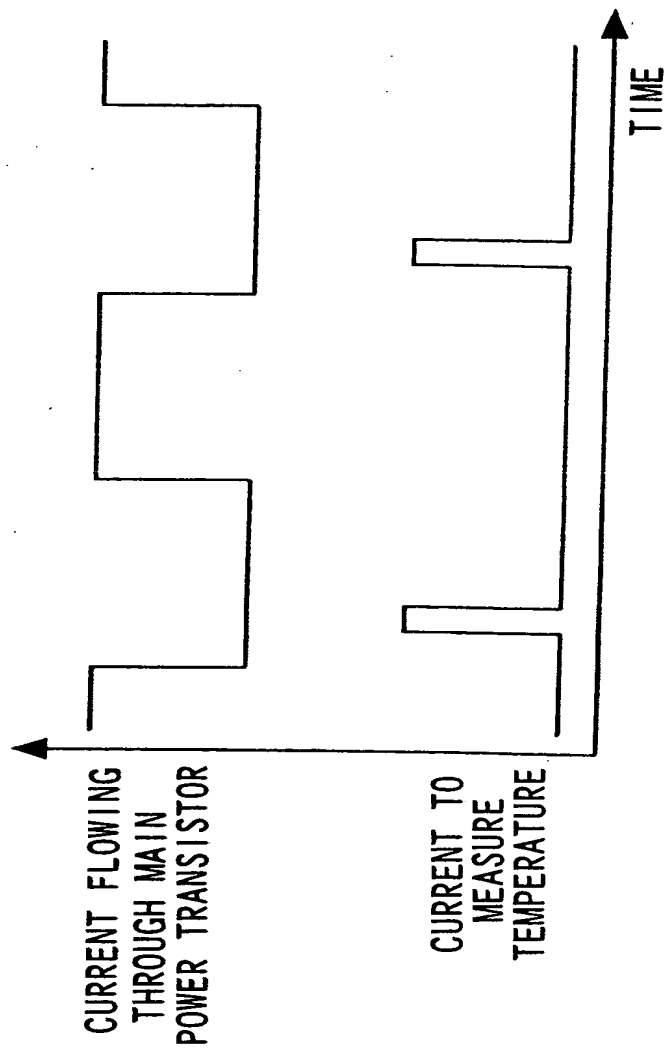
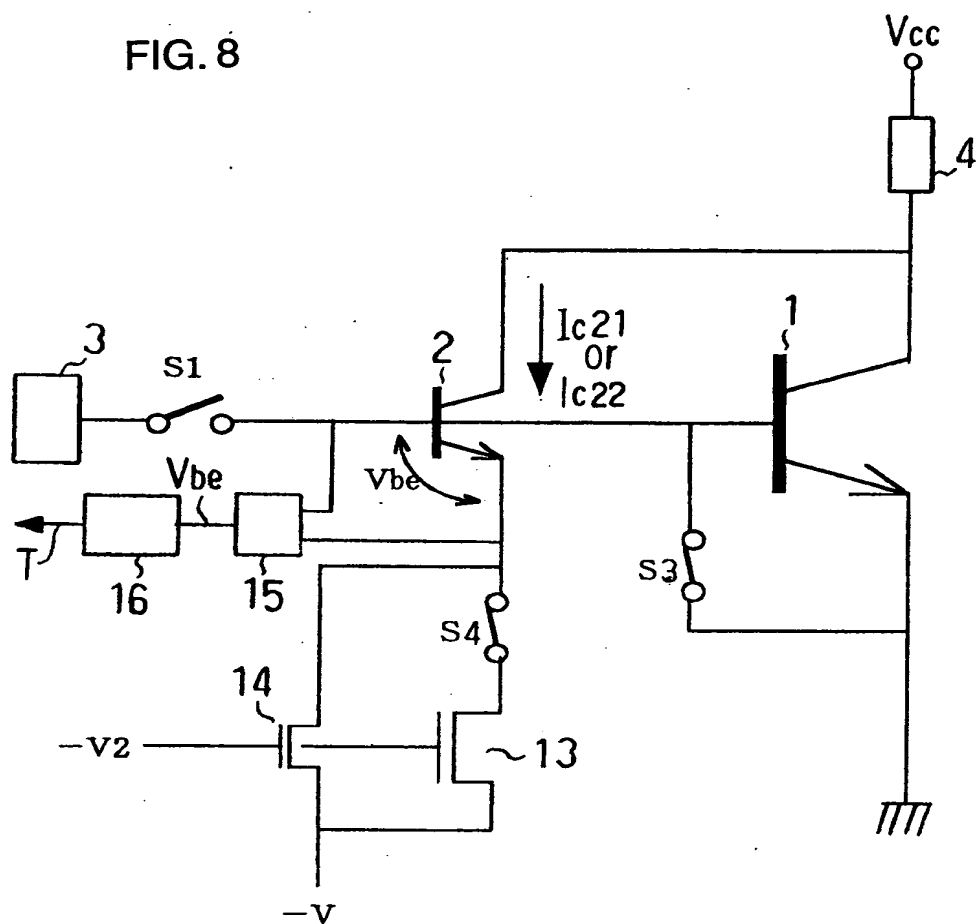


FIG. 7



**Abstract.** The purpose of this paper is to study the asymptotic behavior of the solutions of the Cauchy problem for the Burgers equation with respect to the initial data. It is shown that the asymptotic behavior of the solutions depends on the growth rate of the initial data at infinity. In particular, it is proved that if the initial data grow faster than linearly at infinity, then the solutions converge to zero as time goes to infinity. If the initial data grow linearly at infinity, then the solutions converge to a non-zero constant as time goes to infinity. Finally, if the initial data grow slower than linearly at infinity, then the solutions converge to a non-constant function as time goes to infinity.





**FIG.9**

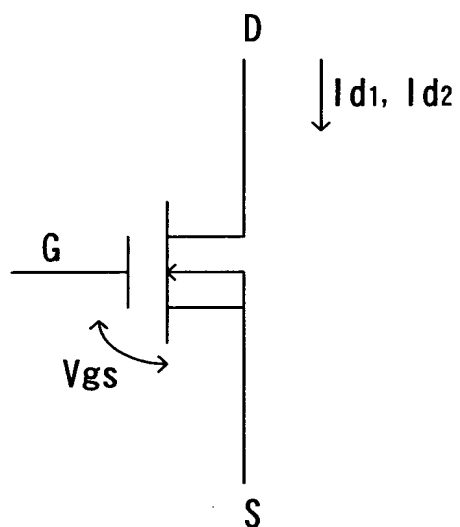


FIG.10

